UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

27820

7590

08/15/2005

WITHROW & TERRANOVA, P.L.L.C. P.O. BOX 1287 CARY, NC 27512

EXAMINER

PERILLA, JASON M

ART UNIT

PAPER NUMBER

2638

DATE MAILED: 08/15/2005

1	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/879.806	06/12/2001	Alex Wayne Hietala	2867-127	3717

TITLE OF INVENTION: FRACTIONAL-N DIGITAL MODULATION WITH ANALOG IQ INTERFACE

Γ	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
ч-	nonprovisional	NO	\$1400	\$300	\$1700	11/15/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

maintenance fee notification	ns.						
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
27820 7	590 08/15/2005			have its own certifica	te of mailing or transmission.		
WITHROW & T	ERRANOVA, P.L.L	C.		. Co	ertificate of Mailing or Trans	mission	
P.O. BOX 1287				I hereby certify that t States Postal Service	this Fee(s) Transmittal is being with sufficient postage for fir	g deposited with the United	
CARY, NC 27512				addressed to the Ma transmitted to the US	this Fee(s) Transmittal is bein with sufficient postage for fir ail Stop ISSUE FEE address PTO (571) 273-2885, on the c	above, or being facsimile tate indicated below.	
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	FIRST	NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/879,806	06/12/2001	Ale	x Wayne Hietal	a	2867-127	3717	
TITLE OF INVENTION: F	RACTIONAL-N DIGITAL	MODULATION WITH	ANALOG IQ II	NTERFACE			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PU	BLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400		\$300	\$1700	11/15/2005	
EXAN	IINER	ART UNIT	CL	ASS-SUBCLASS			
PERILLA,	, JASON M	2638		375-295000			
	e address or indication of "F	ee Address" (37 2. F	or printing on t	he patent front page,	list		
CFR 1.363).	dance address (or Change of	Correspondence (1)	the names of ungents OR, alter	p to 3 registered pate	ent attorneys l		
Address form PTO/SB/1	dence address (or Change of 22) attached.	(2)	•	ingle firm (having as	a member a 2		
Tree Address" indica	tion (or "Fee Address" Indic	ation form regi	istered attorney	or agent) and the nat	mes of up to		
Number is required.	or more recent) attached. Us	e of a Customer 2 re	ed, no name wil	attorneys or agents. I I be printed.	i no name is 3		
3. ASSIGNEE NAME AND	RESIDENCE DATA TO E	BE PRINTED ON THE PA	ATENT (print o	r type)			
			-		nee is identified below, the d	ocument has been filed for	
(A) NAME OF ASSIGN	EE	(B) RESI	IDENCE: (CIT	Y and STATE OR CO	DUNTRY)		
Please check the appropriate	e assignee category or catego	ories (will not be printed o	on the patent):	☐ Individual ☐ (Corporation or other private gro	oup entity Government	
4a. The following fee(s) are			nent of Fee(s):		, ,	• •	
☐ Issue Fee		Ā	check in the an	ount of the fee(s) is e	enclosed.		
Publication Fee (No s	small entity discount permitt	ed) 🖵 Pa	Payment by credit card. Form PTO-2038 is attached.				
				ector is hereby authorized by charge the required fee(s), or credit any overpayment, to count Number (enclose an extra copy of this form).			
	(from status indicated above	· —					
• •	MALL ENTITY status. See		. 		ALL ENTITY status. See 37 C		
The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the reco	is requested to apply the Iss sublication Fee (if required) ords of the United States Pat	ue Fee and Publication Fe will not be accepted from ent and Trademark Office	ee (if any) or to a anyone other the c.	re-apply any previous an the applicant; a re	sly paid issue fee to the applica gistered attorney or agent; or the	ition identified above. he assignee or other party in	
Authorized Signature				Date		· ·	
_					n No		
This collection of informatic an application. Confidential submitting the completed at this form and/or suggestion: Box 1450, Alexandria, Virg Alexandria, Virginia 22313-	on is required by 37 CFR 1.3 ity is governed by 35 U.S.C poplication form to the USP1 for reducing this burden, s inia 22313-1450. DO NOT 1450.	11. The information is red. 122 and 37 CFR 1.14. T O. Time will vary depend hould be sent to the Chief SEND FEES OR COMPI	duired to obtain his collection i ding upon the i Information O LETED FORM	or retain a benefit by servimated to take 12 ndividual case. Any c fficer, U.S. Patent an S TO THIS ADDRES	the public which is to file (and minutes to complete, including comments on the amount of tid Trademark Office, U.S. Dep SS. SEND TO: Commissioner	a by the USP10 to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,	
Under the Paperwork Reduc	tion Act of 1995, no persons	s are required to respond to	o a collection o	f information unless i	t displays a valid OMB control	number.	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/879,806 06/12/2001		Alex Wayne Hietala	2867-127	3717	
27820 7	590 08/15/2005	EXAMINER			
WITHROW & T	ERRANOVA, P.L.L.C.	PERILLA,	PERILLA, JASON M		
P.O. BOX 1287 CARY, NC 27512		ART UNIT	PAPER NUMBER		
CAR1, NC 27512			2638		
			DATE MAILED: 08/15/2005		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 928 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 928 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.